

CLAIMS

1. An electrostatic painting device with a transmission frequency adjustment device, comprising:

high-voltage booster circuit provided inside the body of the electrostatic painting device to rectify a high-frequency low-voltage and generate a DC high voltage for electrostatic painting;

high-frequency low-voltage generator provided independently of said electrostatic painting device to generate said high-frequency low-voltage;

a low-voltage cable connecting said high-frequency low-voltage generator to said high-voltage booster circuit;

current sensor means for detecting a current value corresponding to an intrinsic consumed current at said high-voltage booster circuit;

frequency control means for adjusting a frequency of said high-frequency low-voltage in such a manner that a current value detected by said current sensor means does not exceed a prescribed value.

2. The electrostatic painting device as defined in Claim 1, wherein said frequency control means exercises control to determine a frequency of said high-frequency low-voltage in such a manner that a current value detected by said current sensor means becomes the smallest.

3. The electrostatic painting device as defined in Claim 1 or 2, wherein said current sensor means is provided in said high-frequency low-voltage generator to detect a current supplied to said low-voltage cable.

4. The electrostatic painting device as defined in Claim 1 or 2, wherein said frequency control means performs an operation for adjusting a frequency of said high-frequency low-voltage when the power switch of the electrostatic painting device is closed.
5. The electrostatic painting device as defined in Claim 1 or 2, wherein said frequency control means performs an operation for adjusting a frequency of said high-frequency low-voltage at the set times.
6. The electrostatic painting device as defined in one of Claims 1 - 5, further comprising an abnormality indication means for indicating an abnormal state when a current value detected by said current sensor means exceeds a predetermined value, said frequency control means performing an operation for adjusting a frequency of said high-frequency low-voltage when an abnormal state is indicated.